

#### SEQUENCE LISTING

-1105	TODODY	PHARMACEUTICALS.	TNC	et	<b>=</b> 1
< 1.1.0.>	VERIEA	PHARMACEUIICADS.	TMC .		$a_{\perp}$ .

<120> CRYSTAL STRUCTURES OF JNK-INHIBITOR COMPLEXES AND BINDING POCKETS THEREOF

<130> VPI/02-01PCT

<140>

<141>

<150> 60/348,002

<151> 2002-01-11

<160> 7

<170> PatentIn Ver. 2.1

<210> 1

<211> 422

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Leu His Phe Leu Tyr Tyr Cys Ser Glu Pro Thr Leu Asp Val

Lys Ile Ala Phe Cys Gln Gly Phe Asp Lys Gln Val Asp Val Ser Tyr
20 25 30

Ile Ala Lys His Tyr Asn Met Ser Lys Ser Lys Val Asp Asn Gln Phe 35 40 45

Tyr Ser Val Glu Val Gly Asp Ser Thr Phe Thr Val Leu Lys Arg Tyr 50 55 60

Gln Asn Leu Lys Pro Ile Gly Ser Gly Ala Gln Gly Ile Val Cys Ala 65 70 75 80

Ala Tyr Asp Ala Val Leu Asp Arg Asn Val Ala Ile Lys Lys Leu Ser 85 90 95

Arg Pro Phe Gln Asn Gln Thr His Ala Lys Arg Ala Tyr Arg Glu Leu 100 105 110

Val Leu Met Lys Cys Val Asn His Lys Asn Ile Ile Ser Leu Leu Asn 115 120 125

Val Phe Thr Pro Gln Lys Thr Leu Glu Glu Phe Gln Asp Val Tyr Leu 130 135 140

Val Met Glu Leu Met Asp Ala Asn Leu Cys Gln Val Ile Gln Met Glu 145 150 155 160

Leu Asp His Glu Arg Met Ser Tyr Leu Leu Tyr Gln Met Leu Cys Gly 165 170 175





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Ile	Lys	His	Leu 180	His	Ser	Ala	Gly	Ile 185	Ile	His	Arg	Asp	Leu 190	Lys	Pro
Ser	Asn	Ile 195	Val	Val	ГÀЗ	Ser	Asp 200	Cys	Thr	Leu	Lys	Ile 205	Leu	Asp	Phe
Gly	Leu 210	Ala	Arg	Thr	Ala	Gly 215	Thr	Ser	Phe	Met	Met 220	Thr	Pro	Tyr	Val
Val 225	Thr	Arg	Tyr	Tyr	Arg 230	Ala	Pro	Glu	Val	Ile 235	Leu	Gly	Met	Gly	Tyr · 240
Lys	Glu	Asn	Val	Asp 245	Ile	Trp	Ser	Val	Gly 250	Сув	Ile	Met	Gly	Glu 255	Met
Val	Arg		Lys 260	Ile	Leu	Phe	Pro	Gly 265	Arg	Asp	Tyr	Ile	Asp 270	Gln	Trp
Asn	Lys	Val 275	Ile	Glu	Gln	Leu	Gly 280	Thr	Pro	Cys	Pro	Glu 285	Phe	Met	Lys
ГÀв	Leu 290	Gln	Pro	Thr	Val	Arg 295	Asn	Tyr	Val	Glu	Asn 300	Arg	Pro	Lys	Tyr
Ala 305	Gly	Leu	Thr	Phe	Pro 310	Lys	Leu	Phe	Pro	Asp 315	Ser	Leu	Phe	Pro	Ala 320
qaA	Ser	Glu	His	Asn 325	Lys	Leu	Lys	Ala	Ser 330	Gln	Ala	Arg	qaA ,	Leu 335	Leu
Ser	Lys	Met	Leu 340	Val	Ile	Asp	Pro	Ala 345	Lys	Arg	Ile	Ser	Val 350	Asp	Asp
Ala	Leu	Gln 355	His	Pro	Tyr	Ile	Asn 360	Val	Trp	Tyr	Asp	Pro 365	Ala	Glu	Val
Glu	Ala 370	Pro	Pro	Pro	Gln	Ile 375	Tyr	Asp	ГЛЗ	Gln	Leu 380	Asp	Glu	Arg	Glu
His 385	Thr	Ile	Glu	Glu	Trp 390	Lys	Glu	Leu	Ile	Tyr 395	Lys	Glu	Val	Met	Asn 400
Ser	Glu	Glu	Lys	Thr 405	Lys	Asn	Gly	Val	Val 410	Lys	Gly	Gln	Pro	Ser 415	Pro

Ser Ala Gln Val Gln Gln 420

<210> 2

<211> 340

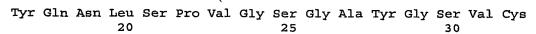
<212> PRT

<213> Homo sapiens

<400> 2

Phe Tyr Arg Gln Glu Leu Asn Lys Thr Ile Trp Glu Val Pro Glu Arg
1 5 10 15





Ala Ala Phe Asp Thr Lys Thr Gly Leu Arg Val Ala Val Lys Lys Leu 35 40 45

Ser Arg Pro Phe Gln Ser Ile Ile His Ala Lys Arg Thr Tyr Arg Glu
50 55 60

Leu Arg Leu Leu Lys His Met Lys His Glu Asn Val Ile Gly Leu Leu 65 70 75 80

Asp Val Phe Thr Pro Ala Arg Ser Leu Glu Glu Phe Asn Asp Val Tyr 85 90 95

Leu Val Thr His Leu Met Gly Ala Asp Leu Asn Asn Ile Val Lys Cys
100 105 110

Gln Lys Leu Thr Asp Asp His Val Gln Phe Leu Ile Tyr Gln Ile Leu 115 120 125

Arg Gly Leu Lys Tyr Ile His Ser Ala Asp Ile Ile His Arg Asp Leu 130 135 140

Lys Pro Ser Asn Leu Ala Val Asn Glu Asp Cys Glu Leu Lys Ile Leu 145 150 155 160

Asp Phe Gly Leu Ala Arg His Thr Asp Asp Glu Met Thr Gly Tyr Val 165 170 175

Ala Thr Arg Trp Tyr Arg Ala Pro Glu Ile Met Leu Asn Trp Met His 180 185 190

Tyr Asn Gln Thr Val Asp Ile Trp Ser Val Gly Cys Ile Met Ala Glu 195 200 205

Leu Leu Thr Gly Arg Thr Leu Phe Pro Gly Thr Asp His Ile Asp Gln 210 215 220

Leu Lys Leu Ile Leu Arg Leu Val Gly Thr Pro Gly Ala Glu Leu Leu 225 230 235 240

Lys Lys Ile Ser Ser Glu Ser Ala Arg Asn Tyr Ile Gln Ser Leu Thr 245 250 255

Gln Met Pro Lys Met Asn Phe Ala Asn Val Phe Ile Gly Ala Asn Pro 260 265 270

Leu Ala Val Asp Leu Leu Glu Lys Met Leu Val Leu Asp Ser Asp Lys 275 280 285

Arg Ile Thr Ala Ala Gln Ala Leu Ala His Ala Tyr Phe Ala Gln Tyr 290 295 300

His Asp Pro Asp Asp Glu Pro Val Ala Asp Pro Tyr Asp Gln Ser Phe 305 310 315 320

Glu Ser Arg Asp Leu Leu Ile Asp Glu Trp Lys Ser Leu Thr Tyr Asp



325 330 335

Glu Val Ile Ser 340

<210> 3

<211> 342

<212> PRT

<213> Homo sapiens

<400> 3

Ala Gly Pro Glu Met Val Arg Gly Gln Val Phe Asp Val Gly Pro Arg 1 5 10 15

Tyr Thr Asn Leu Ser Tyr Ile Gly Glu Gly Ala Tyr Gly Met Val Cys
20 25 30

Ser Ala Tyr Asp Asn Val Asn Lys Val Arg Val Ala Ile Lys Lys Ile 35 40 45

Ser Pro Phe Glu His Gln Thr Tyr Cys Gln Arg Thr Leu Arg Glu Ile 50 55 60

Lys Ile Leu Leu Arg Phe Arg His Glu Asn Ile Ile Gly Ile Asn Asp 65 70 75 80

Ile Ile Arg Ala Pro Thr Ile Glu Gln Met Lys Asp Val Tyr Ile Val 85 90 95

Gln Asp Leu Met Glu Thr Asp Leu Tyr Lys Leu Leu Lys Thr Gln His 100 105 110

Leu Ser Asn Asp His Ile Cys Tyr Phe Leu Tyr Gln Ile Leu Arg Gly
115 120 125

Leu Lys Tyr Ile His Ser Ala Asn Val Leu His Arg Asp Leu Lys Pro 130 135 140

Ser Asn Leu Leu Asn Thr Thr Cys Asp Leu Lys Ile Cys Asp Phe 145 150 155 160

Gly Leu Ala Arg Val Ala Asp Pro Asp His Asp His Thr Gly Phe Leu 165 170 175

Thr Glu Tyr Val Ala Thr Arg Trp Tyr Arg Ala Pro Glu Ile Met Leu 180 185 190

Asn Ser Lys Gly Tyr Thr Lys Ser Ile Asp Ile Trp Ser Val Gly Cys 195 200 205

Ile Leu Ala Glu Met Leu Ser Asn Arg Pro Ile Phe Pro Gly Lys His 210 215 220

Tyr Leu Asp Gln Leu Lys His Ile Leu Gly Ile Leu Gly Ser Pro Ser 225 230 235 240

Gln Glu Asp Leu Asn Cys Ile Ile Asn Leu Lys Ala Arg Asn Tyr Leu



245 250 255

Leu Ser Leu Pro His Lys Asn Lys Val Pro Trp Asn Arg Leu Phe Pro 260 265 270

Asn Ala Asp Ser Lys Ala Leu Asp Leu Leu Asp Lys Met Leu Thr Phe 275 280 285

Asn Pro His Lys Arg Ile Glu Val Glu Gln Ala Leu Ala His Pro Tyr 290 295 300

Leu Glu Gln Tyr Tyr Asp Pro Ser Asp Glu Pro Ile Ala Glu Ala Pro 305 310 315 320

Phe Lys Phe Asp Met Glu Leu Asp Asp Leu Pro Lys Glu Lys Leu Lys 325 330 335

Glu Leu Ile Phe Glu Glu 340

<210> 4

<211> 256

<212> PRT

<213> Mus musculus

<400> 4

Asp Gln Phe Asp Arg Ile Lys Thr Leu Gly Thr Gly Ser Phe Gly Arg

Val Met Leu Val Lys His Lys Glu Ser Gly Asn His Tyr Ala Met Lys 20 25 30

Ile Leu Asp Lys Gln Lys Val Val Lys Leu Lys Gln Ile Glu His Thr

Leu Asn Glu Lys Arg Ile Leu Gln Ala Val Asn Phe Pro Phe Leu Val

Lys Leu Glu Phe Ser Phe Lys Asp Asn Ser Asn Leu Tyr Met Val Met 65 70 75 80

Glu Tyr Val Ala Gly Gly Glu Met Phe Ser His Leu Arg Arg Ile Gly 85 90 95

Arg Phe Ser Glu Pro His Ala Arg Phe Tyr Ala Ala Gln Ile Val Leu 100 105 110

Thr Phe Glu Tyr Leu His Ser Leu Asp Leu Ile Tyr Arg Asp Leu Lys

Pro Glu Asn Leu Leu Ile Asp Gln Gln Gly Tyr Ile Gln Val Thr Asp 130 135 140

Phe Gly Phe Ala Lys Arg Val Lys Gly Arg Thr Trp Thr Leu Cys Gly 145 150 155 160

Thr Pro Glu Tyr Leu Ala Pro Glu Ile Ile Leu Ser Lys Gly Tyr Asn





175 170 165

Lys Ala Val Asp Trp Trp Ala Leu Gly Val Leu Ile Tyr Glu Met Ala 185

Ala Gly Tyr Pro Pro Phe Phe Ala Asp Gln Pro Ile Gln Ile Tyr Glu 200

Lys Ile Val Ser Gly Lys Vál Arg Phe Pro Ser His Phe Ser Ser Asp 220

Leu Lys Asp Leu Leu Arg Asn Leu Leu Gln Val Asp Leu Thr Lys Arg 235 230

Phe Gly Asn Leu Lys Asp Gly Val Asn Asp Ile Lys Asn His Lys Trp 250 245

<210> 5

<211> 39

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Primer

gctctagagc tccatgggca gcaaaagcaa agttgacaa

39

<210> 6

<211> 37

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Primer

tagoggatco toattotgaa ttoattactt cottgta

37

<210> 7

<211> 21

<212> PRT

<213> Homo sapiens

<400> 7

Lys Arg Glu Leu Val Glu Pro Leu Thr Pro Ser Gly Glu Ala Pro Asn 5 1

Gln Ala Leu Leu Arg

20